

● PRINTER RUSH ●

(PTO ASSISTANCE)

Application : <u>09/557737</u>	Examiner : <u>B9999/cha</u>	GAU : <u>2127</u>
From : <u>CA</u>	Location : <u>IDC</u> FMF FDC	Date : _____
Tracking # : <u>6075437</u>		Week Date : _____

DOC CODE	DOC DATE	MISCELLANEOUS
<input type="checkbox"/> 1449	_____	<input checked="" type="checkbox"/> Continuing Data
<input type="checkbox"/> IDS	_____	<input type="checkbox"/> Foreign Priority
<input type="checkbox"/> CLM	_____	<input type="checkbox"/> Document Legibility
<input type="checkbox"/> IIFW	_____	<input type="checkbox"/> Fees
<input type="checkbox"/> SRFW	_____	<input type="checkbox"/> Other
<input type="checkbox"/> DRW	_____	
<input type="checkbox"/> OATH	_____	
<input type="checkbox"/> 312	_____	
<input type="checkbox"/> SPEC	_____	

[RUSH] MESSAGE: The Continuing Data in the specification paragraph
doesn't match that on the Bibsheet. please Review
Thank You
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[XRUSH] RESPONSE: _____

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INITIALS: RP

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 REV 10/04

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METHOD AND APPARATUS FOR
ACCURATE PROFILING OF COMPUTER PROGRAMS

CROSS REFERENCE TO RELATED APPLICATIONS

Sub
AA' 10 This application is related to U.S. Ser. No.
07/970,315, filed on November 2, 1992, which is a continuation
of U.S. Ser. No. 07/718,573, filed on June 21, 1991, now U.S.
Pat. No. 5,193,180.

BACKGROUND OF THE INVENTION

005240-042560 15 The present invention relates generally to a method
and apparatus for profiling computer programs. In particular,
one aspect of the present invention relates to a method for
inserting additional instructions and data into existing
relocatable object files of a computer program to collect very
20 detailed and accurate profiling information. Another aspect of
the present invention relates to a method for converting
profiling information into image data for communication to a
user/developer.

25 Profiling is a technique commonly used by software
developers to gain information about the operation of their
code. This information can then be used to improve and
optimize the code. Profiling is done by processing the program
under development with a profiler. The profiler adds code to
the executable file so that it records various types of
30 statistical data as the program runs. The type of data
recorded varies with the profiler used.

35 One traditional and widely used profiler under UNIX
is known as *prof*. Object code files are supplied to *prof*,
which links the object files and adds monitoring routines to be
executed at the beginning and end of the program. The initial
routines set up a program sampler triggered by timing
interrupts. The program sampler, which is invoked with a
period of 1/100 of a second, records the value of the program
counter register. The routines added to the end of the program

04-27-00

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UTILITY PATENT APPLICATION TRANSMITTAL

(New Nonprovisional Applications Under 37 CFR § 1.53(b))

Attorney Docket No.

RATLP006C3

TO THE ASSISTANT COMMISSIONER FOR PATENTS:

Transmitted herewith is the patent application of () application identifier or (X) first named inventor, James Bennett, entitled METHOD AND APPARATUS FOR ACCURATE PROFILING OF COMPUTER PROGRAMS, for a(n):

() Original Patent Application.

(X) Continuing Application (prior application not abandoned):

(X) Continuation () Divisional () Continuation-in-part (CIP)
of prior Application No. 08/871,247, filed June 9, 1997, which is a continuation of Application No. 08/074,428,
filed, June 8, 1993.

(X) Please add after the title of the application "This is a

(X) Continuation () Divisional () Continuation-in-part (CIP)
of Application No. 08/871,247, filed June 9, 1997, which is a continuation of Application No. 08/074,428, filed,
June 8, 1993, which are both hereby incorporated by reference."

() This application claims the benefit of U.S. Provisional Application
No. _____, filed _____.

Enclosed are:

- (X) Specification; 42 Total Pages. (X) Drawing(s); 19 Total Sheets.
(X) Oath or Declaration:
() A Newly Executed Combined Declaration and Power of Attorney:
() Signed. () Unsigned. () Partially Signed.
(X) A Copy from a Prior Application for Continuation/Divisional (37 CFR § 1.63(d)).
() Signed Statement Deleting Inventor(s) Named in the Prior Application. (37 CFR § 163(d)(2)).
() Power of Attorney. (X) Return Receipt Postcard.
() Associate Power of Attorney. () A Check in the amount of \$ _____ for the Filing Fee.
() Preliminary Amendment. () Information Disclosure Statement and Form PTO-1449.
() A Duplicate Copy of this Form for Processing Fee Against Deposit Account.
() A Certified Copy of Priority Documents (if foreign priority is claimed).
() Statement(s) of Status as a Small Entity.
() Statement(s) of Status as a Small Entity Filed in Prior Application, Status Still Proper and Desired.
() Other: _____

PLEASE DO NOT CHARGE THE FILING FEE AT THIS TIME.

Respectfully submitted,

By:

Michael J. Ritter
Michael J. Ritter, Reg. No. 36,653

Date: April 25, 2000

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